

SEQUENCE LISTING

0110: Springer, Barry A.  
Pantoliano, Michael W.  
Sharp, Celia M.

0120: Analogs of Human basic Fibroblast Growth Factor

0130: 1503.0320001

0140: 09/230,077

0141: 1998-12-23

0150: US 60/068,667

0151: 1997-12-23

0160: 2

0170: PatentIn Ver. 2.0

0210: 1

0211: 483

0212: DNA

0213: Homo sapiens

0220:

0221: CDS

0222: (1)..(474)

0400: 1

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| atg | ggc | acc | atg | gca | gcc | ggg | agc | atc | acc | acg | ctg | ccc | gcc | ctt | cgg | 48 |
| Met | Gly | Thr | Met | Ala | Ala | Gly | Ser | Ile | Thr | Thr | Leu | Pro | Ala | Leu | Pro |    |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |    |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| gag | gat | ggc | ggc | agc | ggc | gcc | ttc | cgg | ccc | ggg | cac | ttc | aag | gac | ccc | 96 |
| Glu | Asp | Gly | Gly | Ser | Gly | Ala | Phe | Pro | Pro | Gly | His | Phe | Lys | Asp | Pro |    |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |    |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| aag | cgg | ctg | tac | tgc | aaa | aac | ggg | ggc | ttc | ttc | ctg | cgc | atc | cac | ccc | 144 |
| Lys | Arg | Leu | Tyr | Cys | Lys | Asn | Gly | Gly | Phe | Phe | Leu | Arg | Ile | His | Pro |     |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| gac | ggc | cga | gtt | gac | ggg | gtc | cgg | gag | aag | agc | gac | cct | cac | atc | aag | 192 |
| Asp | Gly | Arg | Val | Asp | Gly | Val | Arg | Glu | Lys | Ser | Asp | Pro | His | Ile | Lys |     |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cta | caa | ctt | caa | gca | gaa | gag | aga | gga | gtt | gtg | tct | atc | aaa | gga | gtg | 240 |
| Leu | Gln | Leu | Gln | Ala | Glu | Glu | Arg | Gly | Val | Val | Ser | Ile | Lys | Gly | Val |     |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| tgt | gct | aac | cgg | tac | ctg | gct | atg | aaa | gaa | gat | ggt | cga | ctg | ctg | gct | 288 |
| Cys | Ala | Asn | Arg | Tyr | Leu | Ala | Met | Lys | Glu | Asp | Gly | Arg | Leu | Leu | Ala |     |
|     |     | 85  |     |     |     |     |     | 90  |     |     |     |     |     | 95  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| tct | aaa | tgc | gtt | acc | gat | gag | tgc | ttc | ttc | ttc | gaa | cgt | ctc | gag | tct | 336 |
| Ser | Lys | Cys | Val | Thr | Asp | Glu | Cys | Phe | Phe | Phe | Glu | Arg | Leu | Glu | Ser |     |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| aac | aac | tac | aac | acc | tac | cgt | tgc | aga | aaa | tac | acc | agt | tgg | tat | gtg | 384 |
| Asn | Asn | Tyr | Asn | Thr | Tyr | Arg | Ser | Arg | Lys | Tyr | Thr | Ser | Trp | Tyr | Val |     |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |

cca ctt aag cgt acc ggt cag tac aaa ctt ggt tct aag acg ggc cca 432  
Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro  
130 135 140

cgt cag aaa gct atc ctg ttc ctg cgg atg tct gct aaa tct tgaggatcc 483  
Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser  
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Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro  
35 40 45

A p Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys  
50 55 60

Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val  
65 70 75 80

Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala  
85 90 95

Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser  
100 105 110

Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val  
115 120 125

Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro  
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Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser  
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tggtatgttg caattaagcg taccgggtcag tacaagcttg gttctaaaac gggcc 175